7-keto-Deoxycholic acid

Cat. No.: HY-41324

CAS No.: 911-40-0

Molecular Formula: $C_{24}H_{38}O_5$

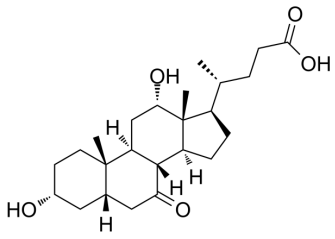
Molecular Weight: 406.56

Target: Others

Pathway: Others

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (245.97 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4597 mL	12.2983 mL	24.5966 mL
	5 mM	0.4919 mL	2.4597 mL	4.9193 mL
	10 mM	0.2460 mL	1.2298 mL	2.4597 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

7-keto-Deoxycholic acid is a metabolite of bile acids in Clostridium absonum. 7-keto-Deoxycholic acid is also converted from Lactobacillus and Bifidobacterium with specific condition[1][2].

In Vitro

7-keto-Deoxycholic acid shows an increasing bioconversion rate with addition of an equimolar concentration of deoxycholic acid (which itself is not metabolized)[1].

7-keto-Deoxycholic acid is induced by deoxycholic acid and then it's metabolized[1].

E. lentum-like c-25 converts 81.7% of 2 mM cholic acid to deoxycholic acid and 3.7% to 7-keto-Deoxycholic acid under anaerobic incubation[2].

E. lentum-like c-25 converts 91.5% of 150 mg/mL cholic acid to deoxycholic acid and 1.1% to 7-keto-Deoxycholic acid under anaerobic incubation[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sutherland JD, et al. The metabolism of primary, 7-oxo, and 7 beta-hydroxy bile acids by Clostridium absonum. J Lipid Res. 1982 Jul;23(5):726-32.

[2]. Takahashi T, et al. Absence of cholic acid 7 alpha-dehydroxylase activity in the strains of Lactobacillus and Bifidobacterium. J Dairy Sci. 1994 Nov;77(11):3275-86.

Caution: Product has not been fully validated for medical applications. For research use only.

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